

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 06-130424

(43) Date of publication of application : 13.05.1994

(51) Int. Cl.

G02F 1/137
G02F 1/1335

(21) Application number : 04-277214

(71) Applicant : SANYO ELECTRIC CO LTD
TOTTORI SANYO ELECTRIC CO
LTD

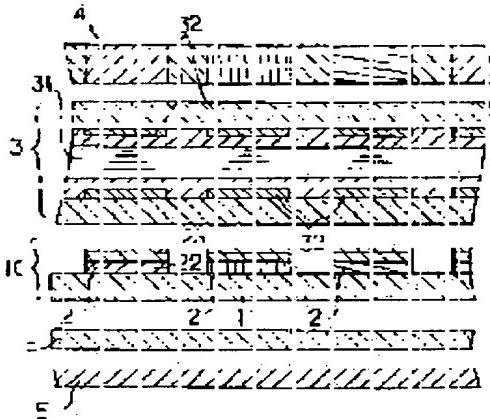
(22) Date of filing : 15.10.1992

(72) Inventor : NARITA KENICHI
YAMAUCHI TAKAO
INAMURA HIROSHI
SUZAKI TAKESHI

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57) Abstract:

PURPOSE: To provide a liquid crystal display device which is high in light utilization efficiency, capable of displaying clearly, and also capable of driving in high time-division. **CONSTITUTION:** A short pitch cholesteric liquid crystal layer 22 reflects a light of a particular wave length (for example, red) in a specified rotational direction, and transmits a light in reverse direction. Utilizing this property, a color selection means 10 is structured with the cholesteric liquid crystal layer 22 which is not provided with an electric field application means for display control to transmit circularly polarization in a specified direction of a light of a specified wave length, and reflects the circularly polarization in the direction opposite to the specified direction. Then a light transmitted or reflected by the color selection means 10 is transmitted through a liquid crystal layer 3 to switch over the polarization state by transmitting it as it is in circularly polarization by electric field or transforming into a straight polarization, etc. The transmitted light is led into a layer 4 to select a polarization mode, and display is made by displaying with a light of specified wave length or shielding all light beams.



[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

Copyright (C) ; 1998, 2000 Japan Patent Office